

KHARITON, Yu.B.; KONDRAT'YEV, V.N.; BOROVIK-P)MANOV, A.S.; ZAVARITSKIY,
N.V.; MALKOV, M.P.; KHAYKIN, M.S.; SHARVIN, Yu.V.

Aleksandr Iosifovich Shal'nikov; on his 60th birthday. Usp.
fiz. nauk 87 no.1:171-172 S '65.

(MIRA 18:9)

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USSR/Physics - Thermodynamics, criticism

FD-534

Card 1/1

MINISTRO-DHIK, 18. H.

Pub. 153-24/28

Author

: Kirillin, V. A., and Rubinshteyn, Ya. M.

Title

: Concerning an ignorant article on dynamics

Periodical

: Zhur tekh. fiz 24, 929-932

Abstract

: Claims that Ye. M Kharitonchik's article "Processes and cycles with decreasing entropy and their significance for natural science and technology" is essentially erroneous and can only confuse the inexperienced reader. This article appeared in the Sbornik trudov po zemledel'cheskoy mekhanike [Symposium of work on agricultureal mechanics], published 1952 under the editorship of Acad. V. A. Zhelegovskiy, of All-Union Academy of Agricultural Sciences imeni V. I. Lenin.

Institution:

Submitted

: September 18, 1953

CHEREMOVSKIY, Yu.I.; BUZULUKOV, P.A., kandidat tekhnicheskikh nauk, retsenzent; KHARITONCHIK, Ye.M., professor, retsenzent; NAPAIKOV. G.I. inzhener, retsenzent; KUZ'MOV, N.T., inzhener, redaktor; BUGINA, N.A., tekhnicheskiy redaktor

نان، رد، ا

[An aid to tractor drivers; use of tractors in agricultural operations] V pomoshch' traktoristu; ispol'zovanie traktorov na s.-kh. rabotakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 327 p. [Microfilm] (MIRA 8:3)

KHRRITONCHIK, YC.NI.

KIRILLIN, V.A.; RUBINSHTEYN, Ya.M.

On an illiterate article about thermodynamics (*Processes and cycles of decreasing entropy and their significance in natural sciences and technology. * E.M.Kharitonchik. Reviewed by V.A.Kirillin, IA.M.Rubinshtein). Zhur.tekh.fiz. 24 no.5:929-932 My 154.

(Thermodynamics)

(MLRA 7:7)

POLKANOV, Ivan Petrovich; SERGEYEV, M.P., prof., red.; KHARITONCHIK, Ye.M., prof., retsenzent; DUGINA, N.A., tekhn.red.

[Theory and analysis of machine-tractor units] Teoriia i raschet mashinno-traktornykh agregatov. Pod red. M.P. Sergeeva. Monkva, Gos. nauchno-tekhn.isd-vo mashinostroit. lit-ry, 1958. 211 p.

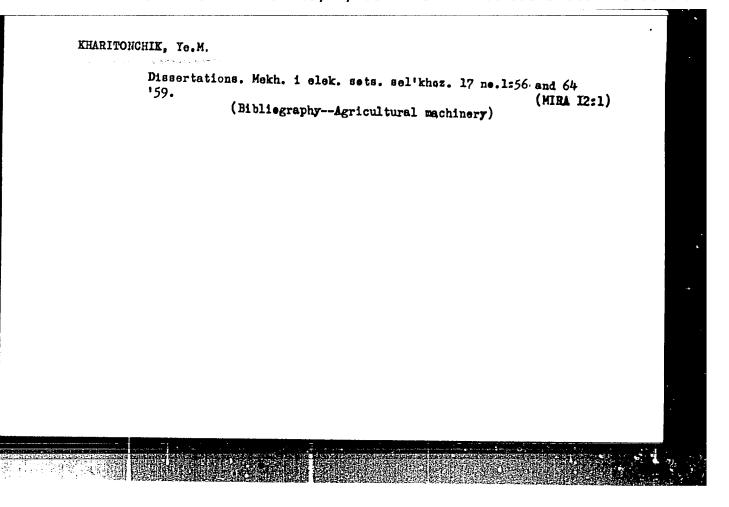
(Agricultural machinery) (Tractors)

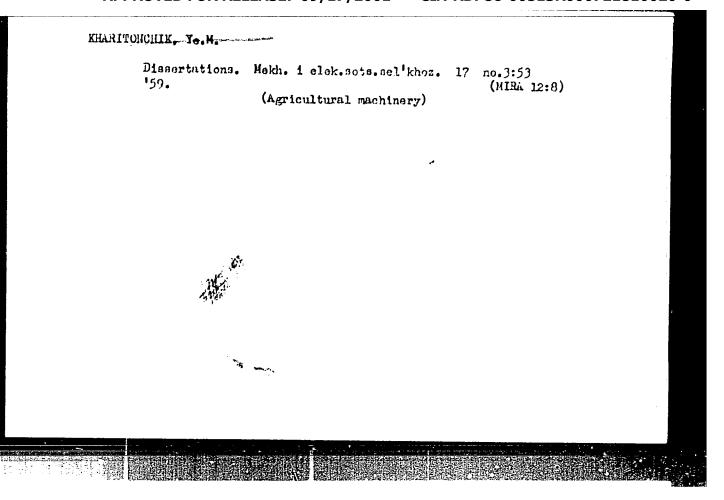
CHEREMOVSKIY, Yuriy Ivanovich; SAYAPIN, V.I., kand.tekhn.nauk, retsenzent;
___KHARITOUCHIK, Yo.M., prof., red.; KUZ'MOV, N.T., inzh., red.;
YERMAKOV, N.P., tekhn.red.

[The S-80 and S-100 tractors; working principle and operation]
Traktory S-80 i S-100; ustroistvo i ekspluatatsiia. Izd.5.,
perer. i dop. Moskva. Gos.nauchno-tekhn.izd-vo mashinostroit.
1it-ry, 1959. (MIRA 12:12)

CHEREMOVSKIY, Yuriy Ivanovich; SIDOROV, Fedor Georgiyevich; MIKHEYEV,
Nikolay Zakharovich; PICHAK, Fedor Ivanovich, kand.tekhn.nauk;
ALEKSEYEV, Georgiy Petrovich; KHARITONCHIK, Ye.K., prof.,;
retsensent; DUGINA, H.A., tekhn.red.

[Tractor operator's manual] Posobie traktoristu. Moskva, Gos.
nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1959. 512 p.
(MIRA 12:6)





		. 17 no.4:1-6 159.	increased speads. Mokh. i (MIW. 12:1		
		autitat rekresiza tsii i el	ektridikatsii sul ^e sho jo		
`ह	hozyoystva.	(Tractors)	(Tractors)		

CHERMOVSKIY, Yuriy Ivanovich; SIDOROV, Fedor Georgiyevich; MIKHKYEV,
Nikolay Zakharovich; PICHAK, Fedor Ivanovich; ALEKSEYEV, Georgiy
Petrovich; KHARITONCHIK, Ye.M., prof., retsenzent; CHERMENNOV,
V.M., inzh., retsenzent; RYABCHENKO, P.G., inzh., retsenzent;
KALOSHIN, A.I., inzh., retsenzent; PICHAK, F.I., kand.tekhn.nauk,
red.; YERMAKOV, N.P., tekhn.red.

[Manual for tractor drivers] Posobie traktoristu. Izd.2., perer. i dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 592 p. (MIRA 13:12)

KHARITONCHIK, Ye.M., prof.

Improvement of tractor transmissions. Trakt. i sel'khozmash. 31 no.10:4-7 9 '61. (MIRA 14:12)

1. Chelyabinskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva.

(Tractors-Transmission devices)

UL'MAN, I.Ye., dots., kand. tekhn. nauk, otv. red.; KHARITONCHIK,
Ya.M., prof., otv. za vyp.; Prinimali uchastiye: LEBEDEV,
S.P., prof., doktor tekhn. nauk, red.; SERGEYEV, M.P., prof.,
red.; KUZNETSOVA, A.V., doktor sel'khoz. nauk, red.; MELAMED,
V.I., dots., red.; DEULIN, N.P., dots., red.; SOKOLOV, B.F.,
dots., red.; ROMALIS, B.L., dots., red.; RASKATOVA, Ye.A.,
dots., red.; TONN, G.A., kand. tekhn. nauk, red.; PANUS, Yu.V.,
st. prepod., red.; KUBYSHEV, V.A., st. prepod., red.

[Materials of the Jubilee Scientific Conference of the Chelyabinsk Institute of the Machanization and Electrification of Agriculture] Materialy IUbileinoi nauchnoi konferentsii. Cheliabinsk. Pt.l.[Investigation of the elements of design and the system of agricultural machinery] Issledovanie elementov konstruktsii i sistemy mashin v sel'skokhoziaistvennom proizvodstve. 1962. 122 p. Pt.2.[Improvement in the design of machinery and the means for prolonging their sevice life] Sovershenstvovanie konstruktsii mashin i puti uvelicheniia ikh dolgovechnosti. 1962. 118 p. Pt.3.[New methods for using electric power in mobile units and technological processes in agriculture] Novye sposoby ispol'zovaniia elektricheskoi energii v mobil'nykh agregatakh i tekhnologicheskikh protsessakh sel'skokhoziaistvennogo proizvodstva. 1962. 44 p. (MIRA 16:8)

1. Chelyabinsk. Institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva. (Ağricultural machinery) (Electricity in agriculture)

SPIRIDONOV, K.M., inzh.; KHARITONCHIK, Ye.M., kand.tekhn.nauk

Study of the rigidity of the transmission system of a 6-ton class tractor. Trakt.i sel'khozmash. no.815-7 Ag '62.

(MRA 15:8)

1. Chelyabinskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva.

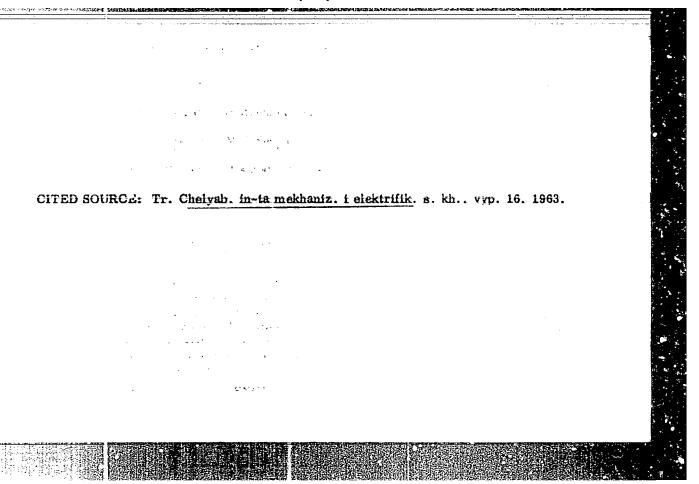
(Tractors--Transmission devices)

Investigating a hydropneumatic starter for tractor diesel engines.
Trakt. i sel'khozmash. 33 no.6:9-13 Je '63. (MIRA 16:7)

1. Chelyabinskiy institut mekhanizatsii i elektrifikatsii sel'-skogo khozyaystva.

(Tractors—Starting davices)

(Diesel engines)



KHARITONENKO, D. "Perfection of New Machine Tools" Stanki i Instrument, 12, No. 6, 1941. Report U-1503, 4 Oct. 1951

MMARITONIFIKO, D. 3., Engineer

"Honing of Steel Cylinders," Stanki i Instrument, 10, No 9, 1939, ENES

Report U-1505, 4 Oct 1951.

KHARITONENKO, F.D.

("Practice in the Control of Infectious Diseases" from material received by the editor)

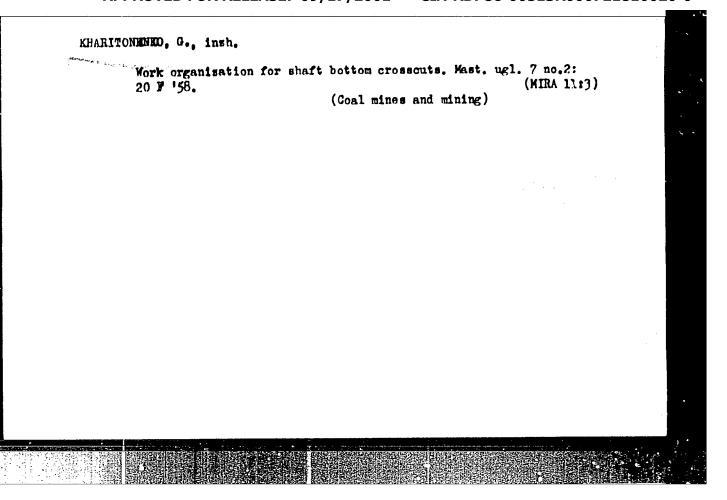
6. Extract: "Duration of Immunity from STI Vaccine in Reindeers" by Science Assistant F.D.KHARITONENKO (Izhma-Pechora NIVOS). The author presents the results of testing the duration of immunity in reindeer inoculated with STI vaccine in 1951-1952.

Mass inoculations of reindeer with STI vaccine were first carried out in March and June 1913 in Izhemskiy Rayon, Komi ASSR. During this time animals that were destined for immunity tests were also inoculated. The test animals were given 1-2-5 and 10 milliliter doses of STI vaccine. Controlled infection of the test animals was effected in February and March 1914. The committee observed the presence of a stable immunity 8 and 11 months after vaccination day.

Likewise in 1944, at the Alekhard NIVOS, after testing the immunity of 24 reindeer inoculated with STI vaccine, the conclusion was reached: "STI vaccine confers immunity against malignant anthrax in reindeer for 162 days.

In 1951-1952 final experiments were made on this same problem. The experimental group was made up of animals inoculated with STI vaccine during the second half of June 1951. The vaccine doses were 1-1.5-2 milliliters. After injection a good reaction was obtained. Page 38

7. Extract: In conclusion the author recommends, "In view of the fact that there was almost no reaction to the vaccine at the time of the mass inoculations in June, we feel it expedient to test immunity in such groups of animals in order to have exhaustive data on the effect of STI vaccine coses on the firstion of immunity " (Veterinarius No.11,1952) do g



ZARING, K.L.; KHARITONENKO, G.P.

Characterisics of the deformation of a-iron during sudden changes in the speed of plastic tension. Fiz. met. i metalloved. 17 no.1:100-104 Ja '64. (MIRA 17:2)

1. Sibirskiy fiziko-tekhnicheskiy institut.

THE PROPERTY OF THE PROPERTY O

GRIGORYAN, G.L.; KHARITONENKOV, I.G.; T'YHONENKO, T.I.; KALMANSON, A.E.

Electron paramagnetic resonance method for studying the interrelationship between semiquinons—type free radicals and native and denaturated DNA. Dokl. AN SSSR 165 no.1:224-226 N '65.

(MIRA 18:10)

1. Institut virusologii im. D.I.Ivanovskogo AMN SSSR i Moskovskiy gosudarstvennyy universitet. Submitted April 26, 1965.

CHETY RINGY, A.G.; KALMANSON, A.E.; PLARITONENKOV, I.G.;
BEYNMENFEL'D, L.A.

study of free radicals in biological objects generated during the course of enzymatic reactions by the electron paramagnetic resonance method. Biofizika 9 no. 1:18-24 (MIRA 17:7)

1. Institut khimicheskoy fiziki AN SSSR, Moskva,

EALMANDER, A.E., TROTCERRO, V.L., CHEMAKOV, V.M.; KHERIFORMIKOV, I.G.

Rature and role of free redicel in biological community forth.

IN SSSR 161 no.5e1212-1215 Ap 165.

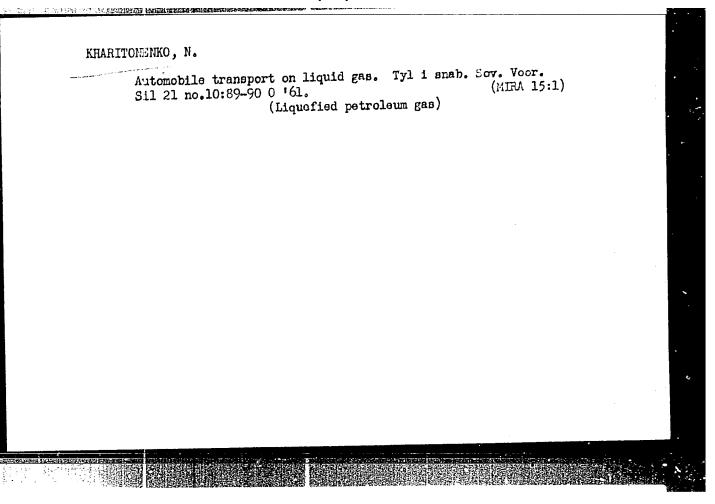
C. Institut virusologii va. F. L. Vanseckege APN JOSE, outside and the survey 15. 1999.

KHARITONENKO, M.I., mladshiy nauchnyy sotrudnik

The KSM-35 ditch and well digging machine. Zashch.rast.ot vred. i bol. 5 no.3:9-11 Mr '60. (MIRA 16:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanizatsii

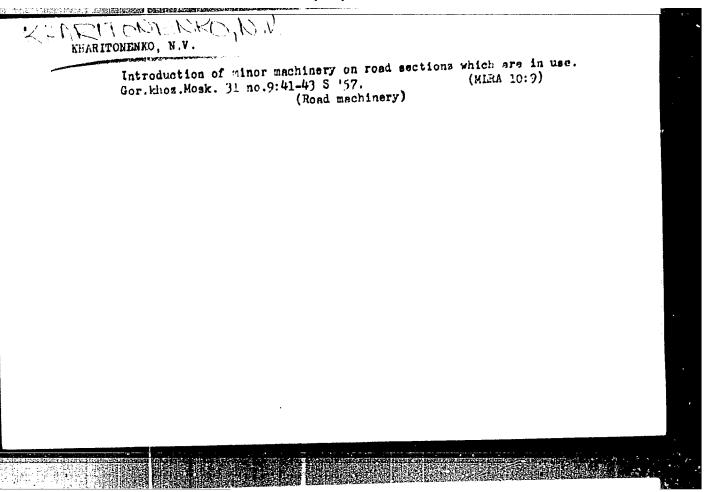
i elektrifikatsii sel'skogo khozyaystva.
(Excavating machinery) (Weevils-Extermination)

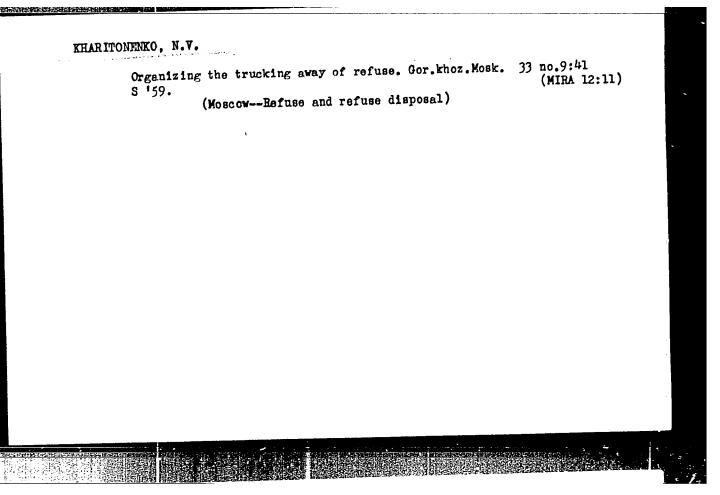


EHARITONENCO, N.V. Testing road materials with the aid of supersonics. Avt. dor. 19 no.7:33 Jl '56. (MLRA 9:10) (Road materials--Testing) (Ultrasonic testing)

THE TANKENS BREEKS BACKETON

Efficiency workers and innovators in the field of street and Bfficiency workers and innovators in the field of street and bridge maintenance. Gor. khoz. Mosk. 30 no.8:32-35 Ag '56. (MLRA 9:10) (Moscow--Roads--Maintenance and repair)

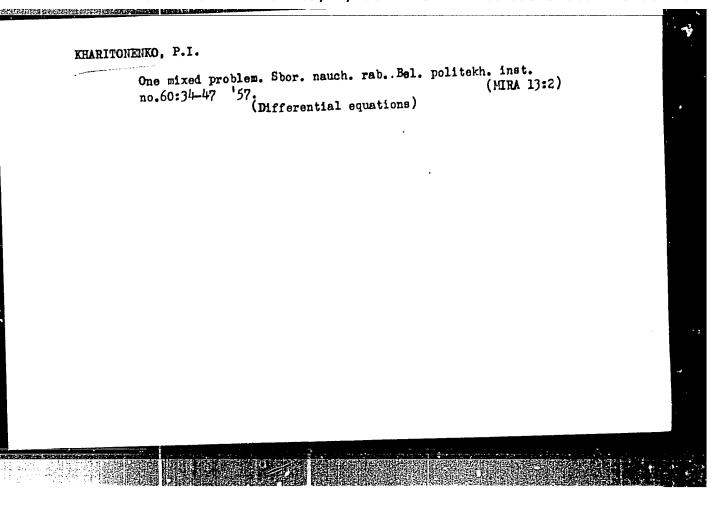




KharitonenKo, PI. Call Nr: AF 1108825 Transactions of the Third All-union Mathematical Congress * (Cont.) Moscow Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp. Molchanov, N. N. (Moscow). Application of the Theory of Continuous Transformation Groups for the Solution of Ordinary Differential Equation. Myshkis, A. D. (Minsk), Abolinya, V. E. (Riga), Zhdanovich, V. F. (Minsk); Kostyukovich, Ye. Kh. (Minsk); Lepin, A. Ye. (Minsk), Kharitonenko, P. I. (Minsk) and Shlopak, A. S. (Moscow). Mixed Problem for Linear Hyperbolic Systems in a Plane. 61 - 63Neymark. Yu. I. (Gor'kly). On the Connections Between the Stability of Closed and Open Dynamic Systems. 63 Olevskiy, M. N. (Moscow). On the Cauchy Problem of the 63 - 64Generalized Euler-Poisson-Darboux Equation. There is 1 reference, which is a translation into Russian. Panayoti, B. N. (Baku). Cauchy Problem of Partial Differential 64 - 65Equations With Small Parameters. card 19/80 *-

ELAR PROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R00072181002

Mixed problem for a certain differential equation encountered in the theory of variations. Shor. nauch. rab. Bel. politekh. inst. no.60: 28-33 '57. (MIRA 13:2) (Differential equations) (Calculus of variations)



KHARITONENKO, P.I.

Method of nets for an approximate solution to a boundary value problem in the theory of variations. Shor. nauch. rab. Bel. politekh. inst. no.60:48-55 '57. (MIRA 13:2) (Theory of variations)

KHARITONENKO, P.I.

24(0)

PHASE I BOOK EXPLOITATION

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Minsk. Belorusskiy politicheskiy institut

Sbornik nauchnykh rabot. Vyp. 60: Seriya fiziko-matematicheskaya (Collected Scientific Works. Nr 60: Physics and Mathematics Series) Minsk, 1957. 167. Errata slip inserted. 1,000 copies printed.

Sponsoring Agency: Ministerstvo vysshego obrazovaniya SSSR.

Tech. Ed.: S. Kh. Pesina; Editorial Board: N. A. Bessonov, Docent, Candidate of Physical and Mathematical Sciences (Resp. Ed.); N. V. Popova, Docent, Candidate of Physical and Mathematical Sciences; N. V. Afanas'yev, Docent, Candidate of Physical and Mathematical Sciences; and L. I. Chesnokov, Docent, Candidate of Physical and Mathematical Sciences (Resp. Ed. for this Number).

PURPOSE: This book is intended for students of the physical and mathematical sciences.

Card 1/5

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721810020 Collected Scientific Works. (Cont. 4)

COVERAGE: This is a collection of 19 articles on mathematics, physics, and theoretical mechanics, prepared by members of the Belorusskiy politekhnicheskiy institut imeni I. V. Stalina (Belorussian Polytechnic Institute imeni I. V. Stalin) and other scientists. The mathematical material includes an analysis of problems relating to the theory of univalent functions of a complex variable, the boundary problem in the theory of vibrations, and a nomogram for the run-off of spring floods. The experimental works include studies of the electroerosion process, crystallization from melts, abrasive polishing of crystals, stress distribution in the frame of an automobile, and the elastic properties of a body during its plastic deformation. References follow the individual articles.

TABLE OF CONTENTS:

- Karlyuk, A. S., Candidate of Philosophical Sciences. Problems of Dialectical Materialism in Presenting a General Physics Course
- 2. Bessonov, N. A. Inertia and Mass

10

Card 2/5

Country

USSR

N=8

CATEGORY

GATZGORY : 8 A35. JOUR. : RZB101., Jo. /4, 1959, No. 87277

AUTHOR

: Kharitonov, A. F.

INST. TITLE

: Viniculture and Wine-Making in the Albanian

People's Republic.

ORIG. PUB.: Vinodeliye 1 vinogradurstvo Stor, 1950, No. 2, 36-38

ABSTRACT

: No abstract

GARD:///

APPROVED FOR RELEASE: 09/17/2001 uchastiy DR86 4005 \$3R000721810020-VORONIN, V.G.; KHARITONOV, A.F.; Prinimala uchastiy DR86 4005 \$3R000721810020-

Investigating the rigidity of single-stand hydraulic presses. Kuz.-(MIRA 17:1) shtam. proizv. 5 no.12:16-19 D 63.

1. Zaveduyushchaya izmeritel noy laboratoriyey Orenburgskogo zavoda "Gidropress" (for Orlova).

L 47121-66 E4T(d)/EWP(1) IJP(c) 9B/GG SOURCE CODE: UR/0271/66/000/001/B039/B039 ACC NR: AR6016026

AUTHOR: Semenov, Yu. I.; Kharitonov, A. G.; Savel'yev, A. V.; Prozorov, Yu. P.

12

TITLE: Analysis of analog-code information converters

B

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl. tekhn., Abs. 1B278

REF SOURCE: Novyye sredstva avtomatiz. dlya ugol'n. prom-sti. Vyp. 2. Kiyev, Tekhnika, 1964, 192-202

TOPIC TAGS: converter circuit, converter, analog converter

ABSTRACT: After a brief review of existing types of analog-code converters a converter circuit is described which operates according to the principle of comparing the imput voltage with the standard sawtoothed variable voltage. The dynamic balance method is applied in the circuit. Single elements are described and the converter's precision is analyzed. Orig. art. has: 6 figures. Bibliography of 4 [NT] titles. [Translation of abstract]

SUB CODE: 09/

Card 1/1

UDC: 681, 142, 621

EwT(d)/EwP(1)BB/00 IJP(c) L h712h-66

SOURCE CODE: UR/0271/66/000/001/A008/A008 ACC NR: AR6016010

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721810020-AUTHOR: Semenov, Yu. I.; Goryachikh, G. A.; Kharitonov, A. G.

TITLE: Semiconductor shift register

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl. tekhn., Abs. 1A49

REF SOURCE: Sb. Novyye sredstva avtomatiz. dlya ugol'n. prom-sti. Vyp. 2. Kiyev, Tekhnika, 1964, 209-214

TOPIC TAGS: semiconductor device, shift register, time relay, semiconductor triode

ABSTRACT: The proposed shift register is made according to a closed circuit with a time relay without requiring external propelled pulses. The shift register is used in equipment where the cophased motion of distributor is not needed, for example, in centralized control systems. The specific feature of register elements, assembled with a P16 type semiconductor triode is the high stability of time lag which is achieved by special switching of the capacitor. The time lag is ~100 sec with fluctuations within 2% for changes in input voltage from +10 to -20%. Orig. art. has: 5 figures. Bibliography of 2 titles. [Translation of abstract] [NT]

SUB CODE: 20/ Card 1/1 LS

UDC: 62-52:621.374.36

EHARITONOV, A.G., glavnyy mekhanik

Effect of suction conditions on the performance of centrifugal mins pumps. Ugol' Ukr. 4 no.12:15-17 D 160. (MIRA 13:12)

1. Shakhta "Butovka-Donetskaya" tresta Kuybyshevugoli.
(Mine pumps)

PAVLYUK, N.P., inzh.; VAKUL'CHIK, V.G., inzh.; SERDYUK, N.S., inzh.;
KRYLOVA, A.S., inzh.; KHARITONOV, A.G., inzh.

Remote control and romote signaling apparatus for mine
ventilation systems. Ugol.prom. no.5:64-66 S-0 '62.

(MIRA 15:11)

1. Luganskiy filial instituta avtomatiki Gosplana UkrSSR.

(Mine ventilation) (Remote control)

S/169/62/000/007/025/149 D228/D307

AUTHOR:

Kharitonov, A. I.

TITLE:

Grouping of seismic detectors and excitation sources

under complex seismo-geologic conditions

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 7, 1962, 21, abstract 7A141 (V sb. Sostoyaniye i perspektivy razvitiya geofiz. metodov poikov i razvedki polezn. isko-

payemykh, M., Gostoptekhizdat, 1961, 252-257)

TEXT: Operations were conducted in the Ferganskaya Valley and in the Surkhandar'inskaya Oblast', where observations with single devices are ineffectual on account of the presence of various intense wave-interferences. The study of the wave field, the construction of the groups, and the choice of their parameters were made on the basis of Golzman's (Gol'tsman's) frequency theory of grouping. The method of studying the wave-interference and calculating the optimal groups of sources and receivers is described. The application of the grouping of many seismic detectors and sources (10 -

Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R00072181002

S/169/62/000/007/025/149 D228/D307

Grouping of seismic ...

20), and the use of the frequency theory's deductions, allow satisfactory seismic material to be obtained for areas, formerly inaccessible for reflection surveys. / Abstracter's note: Complete translation. /

KHHAHONUY, H.L.

AUTHOR: Kharitonov, A.I., Engineer.

110-9-17/23

TITLE:

A Graphical-analytical Method of Calculating the Distribution of the Lond between Traction Motors of an Electric Locomotive under Conditions of Regenerative Braking. (Grafcanaliticheskiy metod rascheta raspredeleniya nagruzok tyagovykh mashin elektrovoza v rezhime rekuperativnogo

tormozheniya)

PERIODICAL: Vestnik Elektropromyshlennosti, 1957, Vol.28, No.9, pp. 65 - 70 (USSR)

ABSTRACT: When operating under conditions of regenerative braking at medium and high speeds, the motors of a locomotive are connected in parallel. Differences between the magnetisation characteristics of the motors and also between the wheel diameters of the locomotive wheel cause the machine armatures to be loaded unequally. This article is concerned with a graphical-analytical method of determining the load distribution between the parallel-connected motors. Two circuits used in Soviet locomotives are considered: the circuit with stabilising resistances used in locomotive BJ1-22M and the circuit with cyclic stabilisation of the S-axle electric locomotive type H-8. The physical nature of the processes of load equalisation card 1/4 between machines in these two kinds of circuit are considered.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R00072181002

A Graphical-analytical Method of Calculating CIA-BD513R00072181002

Load between Traction Motors of an Electric Locomotive under Conditions of Regenerative Braking.

For each motor the difference in the e.m.f. is a function of the equalising current, and the problem consists in equating the expressions for the equalising currents in the different motors. In solving the equation it is assumed that within the limits of possible differences of excitation current, the magnetisation curves are parallel straight lines. On this assumption, the relationship between the field current and the voltage difference is easily found by the methods shown in Fig.1. In formulating the second part of the equation it is assumed that corresponding parts of parallel circuits are of equal resistance and that the armature e.m.f. do not depend on the currents flowing in them. This is equivalent to ignoring armature reaction which could be taken into account, but does not make very much difference to the results. The equivalent circuit diagram for electric locomotives BJ -22M (Fig.2a) is then considered and voltage-difference expressions are derived. The circuit of locomotive H8 (Fig. 2b) is then similarly treated. Finally, an expression is found for the equalising current. To verify the proposed method of calculation, the Leningrad Polytechnical Institute tested the card2/4 current-distribution between two tramway: motors type U-104

KHARITONOV, Aleksandr Ivanovich; CHERNOV, I.

[Principal economic task of the U.S.S.R.] Osnovnain
ekonomicheskaia madacha SSSR. Leningrad, 1958. 74 p.

(KIRA 12:6)

(Russia--Economic policy)

KHARITONOV, Aleksandr Ivanovich; RAUD, V.M., kand.ekonom.nauk, nauchnyy red.; GRIBAKIN, D.V., red.izd-va; GURDZHIYEVA, A.M., tekhn.red.

[Role of labor productivity in solving the main economic task of the U.S.S.R.] Rol' proizvoditel'nosti truda v reshenii osnovnoi ekonomicheskoi zadachi SSSR. Leningrad, Ob-vo po rasprostraneniiu polit. i nauchn.znanii RSF:R, Leningr.otd-nie, 1960. 67 p. (MIRA 14:2)

(Lebor productivity)

THE PROPERTY OF THE PROPERTY O

SKOBELEV, VIKTOR YEFIMOVICH, kand.tekhn.nauk, dotsent; KHARITONOV, ANDREY IL'ICH, assistent

Components of the transformer e.m.f. in pulsating current traction motors. Izv. vys. ucheb. zav.; elektromekh. 4 mo.6: 33-41 '61. (MIRA 14:7)

1. Leningradskiy politekhnicheskiy institut. (Electric railway motors)

AKULOV, N.S.; LUKHVICH, A.A.; KHARITONOV, A.I.

Shape of deformation-stress curves for metals under the effect of

alternating loads. Sbor. nauch. trud. Fiz.-tekh.inst. AN BSSR no.7:9-12 '61. (MIRA 15:7)

(Strains and stresses)

S/571/61/000/007/001/010

Akulov, N.S., Lukhvich, A.A., and Kharitonov, A.I. AUTHORS:

TITLE: Shape of the stress-strain curves of metals under

variable-sign loads

Akademiya nauk Belaruskay SSR. Fiziko-tekhnicheskiy SOURCE:

institut. Sbornik nauchnykh trudov. no. 7. 1981. 9-12

TEXT: Equations for the stress-strein relationship in metals under variable-sign loads are:

> $= \sigma_o + (\sigma_m + \sigma_o)[1 - e^{(\beta - \kappa)(\epsilon - \epsilon_o)}]$ (2)

for the creep curve, and $\varepsilon = b0^{\circ}$ (5)

for the plastic deformation range, where σ is the acting stress, σ is the stress corresponding to the beginning of creep and ε . is the corresponding deformation, & is the resultant deformation and σ_{m} is the maximum deformation sic; b is a constant, ∞ and β

Card 1/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R00072181002

> S/571/61/000/007/001/010 1048/1248

Shape of the stress-strain curves ...

are not defined in the text. Experiments were carried out with annealed copper and low-carbon steel cylinders; under torsional loads Hooke's law was mainly valid. In the plastic range the stress-strain relationship was exponential in the case of Cu and linear in the case of Fe, indicating that the number of Frank-Read dislocation sources in Cu increased exponentially while that in Fe remained constant, 1.9., in no case was there a parabolic relationship. In other experiments strains much larger than the proportional limit were obtained, and then a reverse load applied to complete the hysteresis loop; thereafter, the forward load was applied. The metal under the second forward load behaved otherwise than under the first forward load; no part of the stress-strain curve conformed to Hook's law but became parabolic, indicating that the test conditions disobey the Taylor rule; due to the formation of a large number of blocked dislocations that hinder the motion of single dislocations. The transition from a relationRUDAKOV, A.G.; KHARITONOV, A.I.; CHICHININ, I.S.

The state of the s

Practice of using the frequency theory of grouping in the Uzbek Geophysical Trust. Vop. din. teor. raspr. seisn. voln no.4:220-230 '62. (MIRA 15:10)

(Uzbekistan—Seismometry)

BATUKHIN, Iwan Luk'yanovich; KHARITONOV, Aleksandr Iwanovich;
NIKIFOROV, A.F., kand. ekon. nauk, nauchnyy red.;
BRAILOVSKIY, V.A., red.izd-wa; GURDZHIYEVA, A.M., tekhn.
red.

[Potentials for increasing labor productivity in industrial enterprises] Rezervy rosta proizvoditel nosti truda na promyshlennykh predpriiatiiakh. Leningrad, Ob-vo po rasprostraneniiu polit. i nauchn. znanii RSFSR, 1962. 87 p. (MIRA 16:3)

(Labor productivity)

KHARITONOV, A.I., inzh.

Use of a model in studying the mutual effect of parallel operating converters. Elektrotekhnika 34 no.11:19-24 N 163. (MIRA 17:2)

DRIATSKIY, Nikolay Mikhaylovich; KHARITCKOV, Anatoliy Ivanovich;
LESHCHINSKIY, A.A., otv. red.; ROZOVSKAYA, M.I., red.

[Individual equipment SIO-60 for multichannel long-distance communication systems] Individual'nce oborudovanie SIO-60 dlia mnogokenal'nykh sistem dal'net sviazi.

Moskva, Izd-vo "Sviaz'," 1964. 64. p. (MIRA 17:6)

KHARITONOV, A.I.; LISHUNIN, P.G., starshiy inzh.-inspektor svyazi

Principal trends in the development of telegraph communication. Avtom. telem. i sviaz' 8 no. 3:22 Mr 164. (MIRA 17:5)

1. Nachal'nik otdela telefonnoy i telegrafnoy svyazi Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya (for Kharitonov).

INOGAMOV, R.Sh.; NAKHAMKIN, S.A.; RUDAKOV, A.G.; KHARITONOV, A.I.

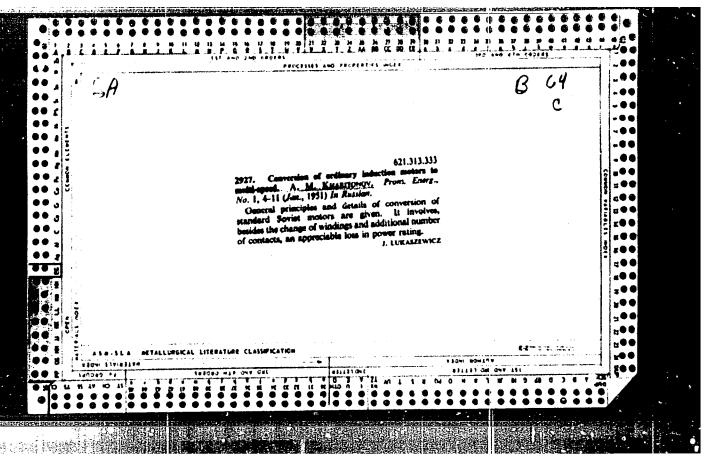
Using the controlled directional sensitivity method with preliminary multi-element grouping under conditions of intensive seismic interference. Prikl. geofiz. no.39:62-74 '64. (MIRA 17:9)

KHARITOHOV, A.M.

Multi-speed low-power electric motors. Stan. i instr. 18 no.8:24-26 Ag '47. (MLRA 9:1)

1.Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov.

(Electric motors) (Hachine tools--Electric driving)



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	fotors, Induction pone-special asymch 1752	ronous electric mot	ors to sultiple	speed. Prom. e:	orj.	
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9. Monthl	y List of Russian	Accessions, Librar	y of Congress,_	November 195	% ,2Uncl.	
AD INC.						

KHARITTINOU, A.M.

USSR/ Engineering - Electric motors

Card 1/1

Fub. 103 - 2/19

Authors

* Kharitonov, A. M.

Title

: Multispeed motors for electri macjine drives

Periodical : Stan. i instr. 2. 5 - 11. Feb 1955

Abstract

t The broad possibilities for the application of multispeed electric motors for the operation of universal and special metal or wood cutting machines are discussed. The advantages derived by numerous plants by replacing the single speed electric motors with multispeed units are listed. Technical data regarding the capacitance and rpm of various multispeed electric motors of the A. AO and T-series are tabulated. Tables; illustration; drawing.

Institution:

Submitted:

KHARITONOV, A. M.

KHARITONOV, A. M. "Multi-speed Electric Motors." Min Higher Education USSR. Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya Letopis', No. 18, 1956,

112-57-8-16691

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 8, p 105 (USSR)

AUTHOR: Kharitonov. A. M.

TITLE: Multispeed Electric Motors for Machine Drive
(Mnogoskorostnyye elektrodvigateli v privodakh mashin)

PERIODICAL: Sb.: Avtomatizatsiya tekhnol. protsessov v mashinostr. Privod i upravleniye mashinami (Collection: Automation of Technological Processes in Machine Building. Driving and Control of Machines), Moscow, AS USSR, 1956, pp 16-22

ABSTRACT: Information is given on multispeed three-phase squirrel-cage induction motors used as an electric drive for machine tools. The author considers a method of changing the motor speed by changing the number of stator poles. He makes a comparison of single- and double-winding multispeed motors and points out the advantages of the single-winding system. For the same frame, the capacity of a single-winding motor is 1.6-2 times as large as that of a double-winding motor. A single-winding motor has the additional advantages of higher energy performance and lower starting current. Application of multispeed motors in various branches of industry and transportation is described.

Card 1/2

AUTHOR:

Kharitonov, A.M., Candidate of Technical

105-58-5-14/28

Sciences (Moscow)

Motors With Several Speeds and a Disconnecting Device at Highest Rotational Speeds of Part of the Turns of the Winding

(Mnogoskorostnyye dwigatel: s otklyucheniyem pr: vysshikh

skorostyakh vrashcheniya chasti vitkov obmotki)

PERIODICAL:

Elektrichest70, 1958, Nr 5, pp. 59-62 (USSR)

ABSTRACT:

TITLE:

On the basis of examples, the case of pole-changing, which is the most frequently occurring case in practice, the ratio of which is

6: 4: 2, is studied. The following schemes are shown: 1.) 2p = 6 for series- and parallel connection of the parts of the windings in the phase. 2.) Part of the winding is disconnected at 2p = 4 and 2p = 2, and only 6 of the 9 windings of the circuit are in action. 3.) Connection of parts of the winding at 2p = 4 and 2p = 2. At 2p = 4 one third of the turns of the windings is disconnected, and with 2p = 2 the entire winding is used. - Two motors of the "Ural" series, type P-42 were used for the experiments. In both motors the windings have two layers, the number of

Card 1/3

Motors With Several Speeds and a Disconnecting Device at Highest Rotational Speeds of Part of the Turns of the Winding

105-58-5-14/28

grooves in the stator is Z₁=36 and in the rotor - Z₂=26. On the strength of these statements the following may be said: 1.) Disconnection of part of the winding in the motor with several speeds at higher rotational speeds simplifies the construction of the throw-over switch, it permits a reduction of dimensions, and warrants greater operational reliability of the motor. 2.) In the course of experiments it was found that in the case of higher rotational speeds part of the turns of the winding can be disconnected without any noticeable deterioration of the mechanical characteristics of the motor being caused. This possibility is essentially determined by two factors: by the pitch of the winding and by the grouping of winding sections in the coil. 3.) The increase of the pitch of the winding in all cases improves the starting characteristics of the motor at high rotational speeds. In schemes concerning the disconnection of part of the winding it is therefore recommended to provide for a winding in which the winding factor is not greatly reduced at the lowest velocity. In any case, an increase of pitch of up to 0.7-0.8 of the full pitch yn is to be recommended for the number of poles at which disconnection

Card 2/3

Motors With Several Speeds and a Disconnecting Device at Highest Rotational Speeds of Part of the Turns of the Winding

105-58-5-14/28

takes place. At y = 0.8 y_n up to 33% of the turns of the winding can be disconnected without an essential deterioration of the mechanical characteristics of the motor. At y \geqslant 0.67 y_n this is possible up to 25% and at y \geqslant 0.55 y_n up to 15% of the turns. 4.) In windings with a small number of coils and a large q the mechanical characteristic during starting improves more than in the case of windings with a large number of coils and a low number of grooves per pole and phase. 5.) As the ratios between the number of grooves in stator and rotor (Z_1 = 36, Z_2 = 26) in the case of the investigated P-42 motors are analogous to the ratios in motors of the unit series A with 4 and 5 poles, the conclusions drawn here apply also in the case of motors of the unitseries. There are 5 figures, and 2 Soviet references.

SUBMITTED:

December 3, 1956

AVAILABLE:

Library of Congress

Card 3/3

1. Electric motors--Control systems

2. Electric motors--Design

3. Electric motors--Performance

SHEYNBERG, S.A., doktor tekhn.nauk; KHARITONOV, A.M., kand.tekhn.nauk

Aerodynamic supports for high-speed engines and turbines. Vest.
mash. 38 no.9:14-17 S '58. (MIRA 11:10)

(Bearings)

SOV/110-59-9-15/22

AUTHOR: Kharitonov, A.M. (Cand. Tech. Sci.)

TITLE: Multi-speed Motors Series T

PERIODICAL: Vestnik elektropromyshlennosti,1959,Nr 9,pp 52-55 (USSR)

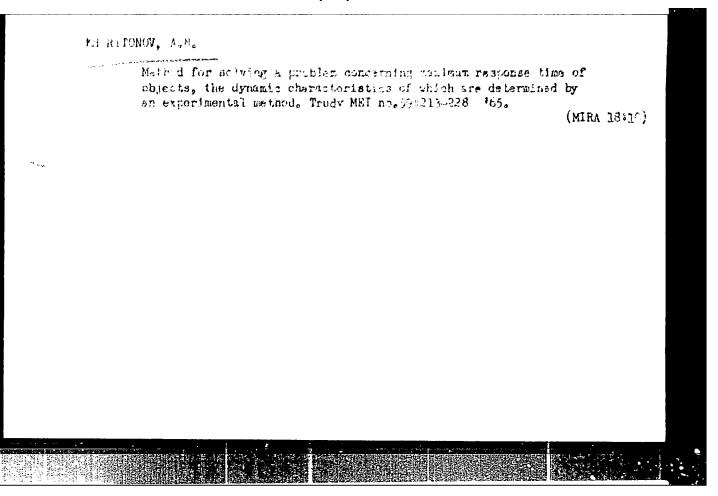
APSTRACT: Three-phase single-winding multi-speed induction motors series T have been made in frame sizes Nr 4 and 5 since 1952. Nineteen multi-speed modifications of Nr 4 frame size motors are now in series production and 23 modifica-In 1956 multi-speed motors tions in Nr 5 frame size. series T were used in more than 70 types of machine tools and woodworking machines. The totally-enclosed ventilated construction is used and the number of terminals brought out may be up to 24. Cast aluminium rotors are used. In most respects series T motors are very similar to those of series AO. The two series differ mainly in their stator and rotor slot dimensions, which are compared in Table 1. It will be seen that motors series T have the larger slot area by about 20%. Details are given of the different pole-changing arrangements. It is stated that series T motors can give higher cutput than series A because under all conditions of pole-changing the full winding is used, whereas with series A sometimes only part Card 1/2

Multi-speed Motors Series T

SOV/110-59-9-15/22

of it is used. Output data of the various type series A and T motors are given in Table 2. Rated cutputs of motors in the T series are given in Table 3. In the series T motors the starting-current ratio is appreciably lower than in ordinary single-speed two-winding multispeed motors. The main technical characteristics of series A and T motors such as power, speed, efficiency and power factor, are compared in Table 4. Series A motors are better than series T only in respect of simplicity of pole-changing arrangements; in general, series T requires more terminals. Methods of improving this situation are under consideration and are briefly described.

Card 2/2 described. There are 4 tables.



ALEKSANDROVSKIY, N.M., kand.tekhn.nauk, dotsent: KHARITONOV, A.N.

Una of computers in the control of complex industrial processes.

Trudy MEI no.59:185-194 '65. (MIRA 18:10)

KHARITONOV, A.P. [Collective farms in Tataria and a new stage in their development] Kolkhoznyi stroi v Tatarii i novyi etap ego razvitiia. Kuzan'. Izd-vo Kazanakogo univ., 1958. 46 p. (Tatar A.S.S.R.--Collective farms) (Tatar A.S.S.R.--Collective farms)

MERLIN, V.S.; MARTYNOV, D.Ya., otvetstvennyy redaktor; MARKOV, M.V., professor, redaktor; SHAFUGULLIN, A.G., professor, redaktor; ARBUZOV, B.A., professor, redaktor; NORDEN, A.G., professor, redaktor; NORDEN, A.G., professor, redaktor; TIRMVINSKAYA, Ye. I., professor, redaktor; ABDRAKHAMANOV, M.I., dotsent, redaktor; MOROZOV, D.G., dotsent, redaktor; KHARUTONOV, A.P., dotsent, redaktor; KOLOBOV, H.V., redaktor; KOLESNIKOVA, Ye.A., starshiy prepodavatel, redaktor; ROZHDESTVENSKIY, B.P., dotsent, redaktor.

[Peculiarity of conditioned reactions in the structure of a voluntary act] Svoeobrazie uslovnykh reaktsii v strukture volevogo akta. Kasan', 1953. 123 p. (Kazan. Universitet. Uchenye zapiski, vol.113, no.3)
(MERA 10:3)

1. Rektor universiteta (for Martynov); 2Prorektor po nauchnoy rabote (for Markov); 3. Prorektor po uchebnoy rabote (for Shafugullin).
4. Sekretar' partbyuro universiteta (for Kolobov)
(CONDITIONED RESPONSE) (WILL)

MADANOV, P.V.; MARTYNOV, D.Ya., otvetstvennyy redaktor; MARKOV, M.V.,

professor, redaktor; SHAFUGULLIN, A.G., professor, redaktor;

ARBUZOV, B.A., akademik, redaktor; DYUKOV, I.A., professor, redaktor;

HORDEN, A.P., professor, redaktor; PISARNV, V.I., professor, redaktor;

TIKHVINSKAYA, Ye.I., professor, redaktor; ABDRAKHMANOV, M.I., dotsent,

redaktor; MOROZOV, D.G., dotsent, redaktor; KHARITONOV, A.P., dotsent,

redaktor; KOLOBOV, M.V., redaktor; KOLESNIKOVA, Ye.A., starwiy prepodavatel, redaktor; VINOKUROV, M.A., professor, redaktor.

[Biological accumulation of manganese in soils of the Volga-Kama ferest-steppe and its availability to plants] Biologicheskaia akkumuliatsiia margantsa v pochvakh Volshsk-Kamskoi lesostepi i ego destupnost! sel!skokhosiaistvennym rasteniism. Kasan!, 1953. 202 p. (Kazan. Universitet. Uchenye zapiski, vol.113, no.7)

(MLEA 10:3)

1. Rektor universiteta (for Martynov). 2. Prorektor po nauchnoy rabote (for Markov). 3. Prorektor po uchebnoy rabote (for Shafugullin)
4. Sekretar' partbyuro universiteta (for Kolebov).

(Plants. Effect of manganese on)

(Velga Valley—Forest soils)

NEFRIMEROV, N.N.; SHARAGIN, A.G.; NUZHIN, N.T., prof., otv. red.; MARKOV, M.T., prof., zamestitel otv. red.; KASHTANOV, S.G., prof., red.; AHBUZOV, B.A., akademik, red.; AL'TSHULKR, S.A., prof., red.; LIVANOV, N.A., prof., red.; NORDKN, A.P., prof., red.; PISARIV, V.I., prof., red.; TIKHVINSKAYA, Ye.I., prof., red.; BARYSHNIKOV, V.G., dots., red.; KOLCBOV, N.V., dots., red.; KOLCBOV, D.G., dots., red.; KHARITONOV, A.P., dcts., red.; YUDIN, I.N., red.; SAMITOV, Yu., red.

[Investigations of wells and development of preventive paraffin control methods] Issledovanie skavazhiny i razrabotka preventivnykh metodov bor'by s parafinom. Kazan' 1957. 108 p. (Kazan. U niversitet. Uchenye zapiski, vol. 117, no.3). (MIRA 11:5)

1. Rektor Kazanskogo gosudarstvennogo universiteta (for Muzhin).
2. Prorektor po nauchnoy rabote Kazanskogo gosudarstvennogo universiteta (for Markov). 3. Prorektor po uchebnoy rabote Kazanskogo gosudarstvennogo universiteta (for Kashtanov). 4. Sekretar partkoma Kazanskogo gosudarstvennogo universiteta (for Yudin).

(Oil wells) (Petroleum engineering)

GARMASH, G.K., GRIDIN, I.R.; KULISHENKO, A.Z.; KHARITONOV, A.S.

Magnetic dendity relay. Zav.lab. 29 no.2:241-242 163.

(MIRA 16:5)

(Electric relays) (Automatic control) (Suspensions (Chemistry))

PEREVALOV, N.N., inshener; EHARITONOV, A.S., inzhener.

Intensification of the final melting. Sbor.trud.TSNIICHM no.13:
109-126 '56.

(Zaporozh'ye--Open-hearth process)
(Oxygen--Industrial applications)

Kharitonou, A.S.

18(5)

PHASE I BOOK EXPLOITATION S

SOV/2295

Moscow. Institut stali

Primeneniye kisloroda v staleplavil nom proizvodstve (Use of Oxygen in Steelmaking) Moscow, Metallurgizdat, 1957. 418 p. (Series: Its: Sbornik, 37) Errata slip inserted. 3,500 copies printed.

Ed.: Ye. A. Borko; Ed. of Publishing House: Ya. D. Rozentsveyg;
Tech. Ed.: Ye. B. Vaynshteyn; Editorial Board of the Institute: M.A. Glinkov, Doctor, Professor; R.N. Grigorash, Candidate of Technical Sciences, Docent; N.T. Gudtsov, Academician; V.P. Yelyutin, Doctor, Professor; A.A. Zhukhovitskiy, Doctor, Professor; I.N. Kidin, (Resp. Ed.) Doctor, Professor; E.G. Livshits, Doctor, Professor; A.P. Lyubimov, Doctor, Professor; I.M. Pavlov, Corresponding Member, Academy of Sciences, USSR; K.G. Trubin, Doctor, Professor; and A. N. Pokhvisnev, Doctor, Professor

PURPOSE: This collection of articles is intended for scientific, industrial, chemical, and metallurgical engineers, physicists Card 1/9

Use of Oxygen in Steelmaking

SOV/2295

and students.

COVERAGE: This book is a collection of scientific research papers on the utilizations of oxygen in steelmaking. The use of oxygen blast for the intensification of fuel combustion and the introduction of oxygen into liquid metal in order to oxidize admixtures are among the topics discussed. The use of oxygen in scrap-ore processes for making steel from pig iron with a high phosphorus content is also discussed. Several articles deal with the heating and processing fundamentals of steelmaking in a recirculation steel-melting furnace. Individual articles deal with the economics of steelmaking with oxygen-blast and the optimum conditions for effective utilization of oxygen. No personalities are mentioned. References follow each article.

TABLE OF CONTENTS:

Filipov, S.I. [Professor, Doctor of Technical Sciences]. Kinetics of Oxidation of Elements in the Metal Bath During Oxygen Blast 5 The author discusses oxidation of carbon, manganese, silicon, Card 2/9

US APPROXED FOR RELEASE: 199/17/2001 CIA-RDP8690052EBR000721810020

and phosphorus, in relation to the rate of introduction of oxygen into the bath.

Glinkov, M.A. [Professor, Doctor of Technical Sciences] and V.I.
Mitkalinnyy [Candidate of Technical Sciences]. Thermal Work of
Open-hearth Furnaces in the Scrap Process

The authors describe modifications made on a furnace to
achieve higher efficiency when oxygen blast is introduced.

Kuznetsov, N.S. [Docent]. Intensification of the Open-hearth Process by Utilizing Oxygen for Fuel Combustion

The author discusses the relationship between the ratio of oxygen introduced, and the heat value of the fuel gas. He also makes recommendations for changes in the refractory lining of furnaces.

Kharitonov, A.S. [Candidate of Technical Sciences], and K.G. Turbin Doctor of Technical Sciences, Professor. Use of Oxygen for Intensification of Decarbonization in the Open-hearth Bath 38

Card 3/9

BASE SECTION SERVICES OF SECTION SECTION SERVICES

Use of Oxygen in Steelmaking

SOV/2295

[Candidate of Technical Sciences]. Technical and Economic 1.24 Efficiency of Oxygen Utilization in Open-hearth Processes

Oyks, G.N. Doctor of Technical Sciences, [Professor], Yu. V. Kryakovskiy [Candidate of Technical Sciences], and V.P. Grigor yev [Engineer]. Intensifying Open-hearth Conversion of High-phosphorus Pig Iron by Introducing Oxygen Into the Bath 138

Oyks, G.N., Yu. V. Kryakovskiy, Ye. A. Kapustin, and V.P. Grigor'yev. Efficiency of Oxygen Utilization for Enriching Air in the Open-hearth Conversion of High-phosphorous Pig Iron The author describes comparative industrial tests of different stages of the open-hearth process with and without the use of oxygen.

Oyks, G.N. Selecting the Proper Method for Open-hearth Conversion of High-phosphorus Pig Iron The author suggests a composition of open-hearth charge, which, combined with oxygen blast, is supposedly more efficient in dephosphorization.

Card 5/9

CIA-RDP86-00513R000721810020 APPROVED FOR RELEASE: 09/17/2001 SOV/2295 Use of Oxygen in Steelmaking

Abrosimov, Ye. V. [Candidate of Technical Sciences, Docent]. Intensification of the Open-hearth Scrap Process With Oxygen 177 The author discusses the use of oxygen blast for the intensification of fuel combustion, for the meltdown, for the direct oxidation of charge elements, and for the duration of the entire heat.

Abrosimov, Ye. V., V.A. Kudrin [Candidate of Technical Sciences], and G.I. Demin [Candidate of Technical Sciences, Docent]. Material and Heat Balances of the Open-hearth Scrap Process With Oxygen Blast 195

The authors give an account of a comparative experimental investigations of heat and material balances of open-hearth processes with and without oxygen blast.

Kudrin, V.A. Temporary Overoxidation of the Open-hearth Bath During Oxygen Blast 214

Abrosimov, Ye. V., and V.A. Kudrin. Course of Carbon Oxidation in the Open-hearth Bath During Oxygen Blast 232 Card 6/9

Use of Oxygen in Steelmaking

SOV/2295

This article deals with the thermal and technical aspects of a 10-ton industrial recirculation steel-melting furnace with simultaneous fuel feed from both ends accompanied by the application of oxygen-enriched air.

Krivandin, V.A. [Candidate of Technical Sciences]. Study of Combustion in the Recirculation Steel-melting Furnace 330 The author describes an investigation of the combustion processes, furnace gases, and composition of the exhaust gases.

Rekhtman, A. Ya. [Candidate of Technical Sciences, Docent].

Special Characteristics of Gas Flow in a Recirculation Steelmelting Furnace

The author discusses investigations made in a model furnace for the study of gas flow, the distribution of combus-

Demin, G.I. [Docent]. Heat Balances of a Recirculation Steel-melting Furnace 372 Card 8/9

tion products, and the distribution of pressure on the walls.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721810020

Molchanov, N.G. [Candidate of Technical Sciences, Docent]. Comparison of Gaseous Fuel Combustion Processes in Furnaces With Through and Recirculating Gas Flows

Livshits, B.G. [Doctor of Technical Sciences, Professor],
L.A. Shishko [Candidate of Technical Sciences, Docent], and
N.G. Lakhman [Engineer]. Quality of Steel Made in a Recirculation Steel-melting Furnace

The authors investigate the qualities of recirculationfurnace steels, comparing them with ordinary open-hearth
steel.

AVAILABLE: Library of Congress G0/ec Card 9/9 10-12-59

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 29 (USSR)

AUTHOR: Kharitonov, A.S.

TITLE: On a Combined Method of Using Oxygen in Open-hearth Steel-

making (K voprosu o kombinirovannom metode primeneniya

kisloroda v martenovskom proizvodstvel

PERIODICAL: Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, 1957, Nr 4,

pp 5-10

ABSTRACT: To avoid splashing and dust formation during O2 blow of a

bath with high [C], a combination of work with air enriched by 24-28% O₂ with high [C] during the ore boil and bath blow with O₂ when [C] $\leq 0.5\%$ during the pure boil is carried out in several heats of low-carbon steel. During the first period (~30 minutes), the O₂ consumption is 465-770 m³, ore addition being 2.5-4.0% of the weight of the metal. Introduction of O₂ into the bath begins immediately after its introduction into the flame with cut off. The consumption of O₂ in the

flame is cut off. The consumption of O₂ in the refining period is 590-725 m³. When an O₂-enriched jet is used, V_C is

l.10-1.25%/hr. However, the average V_C for the entire boil Card 1/2 period also fluctuates from 0.66 to 0.87%/hr instead of 0.4% in

On a Combined Method of Using Oxygen in Open-hearth Steelmaking

ordinary heats. The total O_2 consumption during the period of boil is 6-8 m³/t. The boil period is reduced by 50 to 70 minutes. This type of bath blow is relatively quiet, and the action of splashing and dust upon the furnace refractories is reduced.

Yu.N.

1. Steel--Production 2. Open hearth furnaces---Operation 3. Oxygen--Thermal effects

Card 2/2

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 29 (USSR)

AUTHOR: Kharitonov, A.S.

TITLE: Intensification of Decarburization and Heating of the Bath in

Oxygen Blow (Intensifikatsiya obezuglerozhivaniya i nagreva

vanny pri produvke kislorodom)

PERIODICAL: Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, 1957, Nr 4,

pp 30-46

ABSTRACT: A study is made of the special features of the smelting of

low-carbon rimmed steel with the purpose of finding the optimum blow parameters and melting procedure. The heats are run in 185-t open-hearth furnaces, the O₂ being introduced through water-cooled tuyeres of the G.S. Sel'kin design. The conditions of C oxidation as the metal is blown by oxygen depend upon [C], the intensity of the blow, and the ore conditions of the heat during the period of blow, i.e., upon the ratio between the quantities of Fe ore introduced into the bath and of gaseous O₂. Thus, an increase in the intensity of the metal blow from

20 to 40 m³/min, i.e., by 100%, increases V_C by 150%. In

Card 1/2 this procedure, control of V_C and the heating of the bath is

Intensification of Decarburization and Heating of the Bath in Oxygen Blow

attained by addition of Fe ore. The best results are obtained at ratios of $^{3.5}$ kg ore per 3 O₂, in which case the consumption of O₂ comes to 3.5-10 3 t finished ingots, depending upon the initial [C]. When O₂ is employed in this way, the average V_C is 0.7-1.15%/hr instead of 0.35-0.45% with the standard process, and the rate of heating of the metal during the period of boil (from the moment of fusion to deoxidation) is 55-145 degrees C/hour, while under the standard process the rate of heating of the metal varied from 30 to 50 degrees/hour. The overall reduction in the duration of a heat is 50 to 100 minutes.

Yu.N.

J

- 1. Steel---Production 2. Carbon---Separation 3. Open hearth furnaces---Operation
- 4. Carbon--Oxidation 5. Oxygen--Effectiveness

Card 2/2

SOV/137-58-9-18572

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 56 (USSR)

AUTHOR:

Kharitonov, A.S.

TITLE:

The Employment of Oxygen-enriched Air in Smelting of Rimmed Steel (Vyplavka kipyashchey stali s primeneniyem kisloroda dlya obogashcheniya vozdukha)

PERIODICAL: Tr. Donetsk. otd. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Nr 5, pp 76-91

ABSTRACT:

An account of the results of an investigation dealing with the effectiveness of a method whereby the air blast of openhearth furnaces is enriched with 25-30% of O₂ during the working period; this method was employed in 1953-1954 for the 185-ton furnaces of the "Zaporozhstal" plant. Ref RZhMet, 1958, Nr 6, abstract 11682.

A.D.

1. Steel--Production 2. Open hearth furnaces--Operation

3. Oxygen--Performance

Card 1/1

137-58-6-11682

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 66 (USSR)

AUTHORS: Kharitonov, A.S., Trubin, K.G.

TITLE. Use of Oxygen in the Burner Flame to Intensify Carbon Re-

moval in an Open-hearth Bath (Primeneniye kisloroda fakel'-

nym sposobom dlya intensifikatsii obezuglerozhivaniya

martenovskoy vanny)

PERIODICAL: Sb. Mosk. in-t stali, 1957, Vol 37, pp 38-79

ABSTRACT: Results are presented of a study of the effectiveness of the

enrichment of blower-delivered air in open-hearth furnaces with up to 25-28% O₂ during the periods of charging, heating,

melt-down, and working of the heat. The experiments were run in 185-t open-hearth furnaces at the Zaporozhstal' plant,

heated by an uncarburetted mixture of coke and blast furnace

gas, as 08 kp steel was made by the scrap-and-ore process. [C] was 0.7-1.4% of the molten metal. When air enriched with

up to 28% O2 was used during >70% of the boiling time, the

speed of carbon removal almost doubled. This was the result

of the high speed of transport of O2 from the gas phase into the

Card 1/2 metal: in experimental heats, this was found to be

137-58-6-11682

Use of Oxygen in the Burner (cont.)

9.4 kg/m².hr as against 5.7 kg/m².hr in standard heats. This last is explained chiefly by the presence of an increased gradient of Fe₂O₃ contents between the upper and lower layers of slag in the portion of the bath adjacent to the oxygen tuyeres. Improvement in heat exchange in the furnace proper thanks to the increase in the oxidizing capacity of the flame made it possible to raise the mean hourly rate of heating of the metal during the boil period from 30-50°C in ordinary heats to 100° in heats with air enriched with up to 28% O₂, the heat input being virtually identical. This made possible high-ore heats. The mean time saving per heat when O₂ was used during up to 65% of the boil period was 6 min per m³O₂/ton ingots. The yield of satisfactory metal and its quality were equivalent to the usual. In the scrapand-ore process the use of O₂ during the period of boil is no less effective than during the charging, heating, and melt-down periods.

A.D.

1. Open hearth furnaces--Performance 2. Oxygen--Applications 3. Carbon--Reduction

Card 2/2

SOV/133-58-8-8/30

AUTHORS: Kharitonov, A.S., Candidate of Tehnical Sciences, Docent, Bul'skiy, M.T., Alimov, A.G., Glinkov, G.M. and Beloglovskiy, M.Sh., Engineers

Optimum Temperature Conditions for Smelting Rimming Steel TITIE:

from Phosphorus Pig Iron (Optimal'nyy temperaturnyy rezhim

vyplavki kipyashchey stali iz fosforistogo chuguna)

Stal', 1958, Nr 8, pp 706 - 709 (USSR) PERIODICAL:

ABSTRACT: An outline of the smerting practice of rimming steels used in the Azovstal' Works is given. On the basis of an analysis of the temperature data during the refining period of a large number of heats, the optimum metal temperature at the beginning of boiling and before deoxidation was established in order to obtain steel with a low consumption coefficient. The influence of the charging rate of additions during the refining period on the velocity of heating of metal - Figure 1; the influence of the metal temperature at the beginning of pure boiling on the number of ladles of metal of low and high consumption coefficients - Figure 2; the influence of metal temperature before deoxidation on the number of ladles of metal of high and low consumption coefficients - Figure 3;

Card1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721810020

OY/133-58-8-8/30
Optimum Temperature Conditions for Smelting Rimming Steel from Phosphorus Pig Iron

> C | ratio in the finished the influence of the [Mn] : rimming steels on the consumption coefficient of metal -Figures 4 and 5 (A); frequency distribution of the number of ladles of steel with different [Mn]: [C] ratios - Figure 5 (B). It was also established that it is advantageous to produce rimming steel with the manganese content in the ladle sample near to the lawr limit permitted by standards and that the ratio of [Mn] [C] in the finished steel should not exceed 2.7 for steels StO, 1 and 2kp and 2.5 for steel St3kp. There are 5 figures and 3 Soviet references.

Zhdanovskiy metallurgicheskiy institut (Zhdanov ASSOCIATIONS: Metallurgical Institute) and Zavod "Azovstal'"

("Azovstal'" Works)

1. Steel--Producton 2. Steel--Temperature factors

Card 2/2

KULISHENKO, A.Z.; KHARITONOV, A.S.; KUZ'MENKO, A.S.; GARMASH, G.K.

Determination of the viscosity of magnetite in suspension by measuring its magnetic permeability in conjunction with a radioactive densitometer. Koks i khim. no.2:13-15 '60. (MIRA 13:5)

1. Ukrainskiy uglekhimicheskiy institut(for Kulishenko, Kharitonov). 2. Yasinovskiy koksokhimicheskiy zavod(for Kus'-menko, Garmash).

(Yasinovka--Coal preparation) (Magnetite)

Moscov. Institut stali.

Novoye v teorii i praktike proizvodstva martenovskoy stali (Nev [Developments]
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Sponsoring Agency: Ministerstvo vyesbego i srednego spetsial'nogo obrazovaniya
REFER. Moskovskiy institut stali imoni I. v. Stalina.

Eds.: M. A. Glinkov, Professor, Doctor of Technical Sciences, V. V. Kondakov,
Professor, Doctor of Technical Sciences, V. A. Kudrin, Docent, Candidate of
Professor, Doctor of Technical Sciences, V. A. Candidate of
Professor, Doctor of Technical Sciences, V. A. Candidate of
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Professor, Doctor of Technical Sciences, V. A. Can

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BOV /5556 New [Developments] in the Theory (Cont.) COVERAGE: The collection contains papers reviewing the development of openhearth steelmaking theory and practice. The papers, written by staff members of schools of higher education, scientific research institutes, and main laboratories of metallurgical plants, were presented and discussed at the Scientific Conference of Schools of Higher Education. The following topics are considered: the kinetics and mechanism of carbon oxidation; the process of slag formation in open-hearth furnaces using in the churge either ore-lime briquets or composite flux (the product of calcining the mixture of lime with bauxite); the behavior of hydrogen in the open-hearth bath; metal desulfurization processes; the control of the open-hearth thermal multing regime and its automation; heat-engineering problems in large-capacity furnaces; serodynamic properties of fuel gases and their flow in the furnace furnaces; aerodynamic properties of fuel gases and their flow in the furnace combustion chamber; and the improvement of high-alloy steel quality through the utilization of vacuum and natural gases. The following persons took part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the discussion of the papers at the Conference: S.I. Filippov, part in the Conference: S.I. Chemical Metallurgy of the Siberian Branch of the Academy of Sciences USSR); chemical retailurgy of the Siberian Branch of the Academy of Sciences USSR);
A.I. Stroganov. and D. Ya. Povolotskiy (Chelyabinsk Polytechnic Institute);
P.V. Umrikhin (Ural Polytechnic Institute); I.I. Fomin (the Moscow "Serp 1 molot" Metallurgical Plant); V.A. Fuklev (Central Asian Polytechnic Institute);

Card 2/14

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New [Developments] in the Theory (Cont.) 807/5556				
and M.I. Beylinov (Hight School of the Dneprodzerzhinsk Metallurgical Insti References follow some of the articles. There are 268 references, mostly S	tute). Noviet.		·	
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Institute]. Regularity Patterns of the Allettes of Ottom of Institute] in Metals With Low Carbon Content [V. I. Antonenko participated in the experiments]	. 5			
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KUZNETSOV, A.F.; KHARITONOV, A.S.; MOLONOV, G.D.

Effect of the method of deoxidation and conditions of casting on the quality of pipe steel. Izv. vys. uchet. zav.; chern. met. 4 no.8:43-47 '61.

1. Zhdanovskiy metallurgicheskiy institut. (Steel--Metallurgy)

KULISHENKO, A.Z., kand. tekhn. nauk; KHARITONOV, A.S.; GRIDIN, I.A.

Capacitance transducer for measuring the moisture content of the coking charge in the flow. Koks i khim. no.9:16-19 '62.

(MIRA 16:10)

1. Ukrainskiy uglekhimicheskiy institut.
(Moisture—Measurement) (Coke)

Machanical properties of attractated attack and test transphorage data from in an organ-blan converse. Now, this enable ade; there met. Vinc. Units 1861)

i. Indanovskiy setaliongtoroukly institut.

Using overall dust suppression at the "Abashevskaia-2" mine. Ugol' 40 no.6:61-63 Je 65. (MIRA 18:7)

1. Vostochnyy nauchno-issledovatel'skly institut po bezopasnosti rabot v gornoy promyshlennosti (for all except Kharitonov). 2. Shakhta "Abashevskaya-2" (for Kharitonov).

AUTHOR: Kharitonov, A. T. SOV/133-59-2-16/24

TITLE: Mechanical Properties of Rubber-Metal Elements in the Shock Absorbers of Automatic Couplings

(Mekhanicheskiye svoystva rezino-metallicheskikh elementov v pogloshchayushchikh apparatakh avtostsepki)

PERIODICAL: Kauchuk i rezina, 1959, Nr 2, pp 50-54 (USSR)

ABSTRACT: The standard equations relating stress/deformations under static and dynamic conditions for rubber sections are given in formulae (1) and (2). These are not accurate for deformations above 20% to 30% and the work is directed to finding corrections for the equations when applied to rubber elements for shock absorbers for automatic couplings in rolling stock. Static tests were made on flat, pyramidal, and annular specimens using a ring dynamometer to measure stress and direct measurement of deformation as shown in the apparatus in Fig 1. Specimens with the same form factor (volume/area), but with different shapes exhibit different force/

deflection characteristics. Fig 2 illustrates the Card 1/4 5 minute stress/deformation curves for three shapes

SOV/138-59-2-16/24

Mechanical Properties of Rubber-Metal Elements in the Shock Absorbers of Automatic Couplings

> commonly used in shock absorbers. The form factor is the same for each shape but the curves differ according to the relative dimensions indicated for each shape, Further tests on rectangular specimens with a 1:1:4 ratio of sides are shown in Fig 3 where 3 stress/deformation graphs are given for rubbers of different Shor hardnesses. Each graph contains curves for different form factors. The modified relationship between the stress q and the deformation ϵ :

$$q = E_{comp} \frac{\varepsilon}{(1 - \varepsilon)^n} \text{ kg/cm}^2$$
 (3)

is deduced from these where:

for Shor Hardness 70: $n = 1.5 E_{comp} = 60 + 80 \cdot \phi^{2.15}$ $60: n = 1.0 E_{comp} = 40 + 21 \cdot \phi^{1.6}$ $40: n = 2.0 E_{comp} = 14 + 16 \cdot \phi^{1.9}$

Card 2/4

SOV/138-59-2-16/24

Mechanical Properties of Rubber-Metal Elements in the Shocl Absorbers of Automatic Couplings

The inset curves in Fig 3 show the relation between the modulus E and the form factor ϕ . Dynamic tests were performed on the test shock absorber shown in Fig 4, under a free falling weight of 178 kg and 82 kg by a height of fall from 100 mm to 500 mm, and initial shock velocities from 1.4 to 3.14 metres/sec. The height of the assemblies tested in the shock absorbers varied from 242 to 65 mm. Oscillograms were taken on a recording oscilloscope showing force, time and deformation (Fig 5a). Stress/deformation characteristics are shown in Fig 5b and are virtually the same for all form factors, and the conclusion is that with constant shock energy, but with different speeds, the maximum deformation remains constant, at any rate at deformation speeds de/dt from 5.8 to 48.3 %/sec. This simplifies calculations, as the internal friction may be considered to be proportional to the speed of deformation. Dynamic deformation curves, as shown in Fig 53 enable the relation

 $q_{d} = E_{i1} \frac{\varepsilon}{(1 - \varepsilon)^{n}} kg/cm^{2}$ (3')

Card 3/4

Mechanical Properties of Rubber-Metal Elements in the Shock Absorbers of Automatic Couplings

to be established, where n and E_d are related to Shor hardness:

Shor Hardness 70: n = 3.5 E_d = $95 + 65\phi^{1.98}$

60: n = 1.5 E_d = $65 + 230\phi$ 1.88

40: n = 1.5 Ed = $38 + 82\phi^{1.37}$

There are 5 figures and 9 references, 7 of which are Soviet, 1 English and 1 German.

ASSOCIATION: Bryanskiy institut transportnogo mashinostroyeniya (Bryansk Institute of Transport Machine Construction)

Card 4/4

NIKUL'SKIY, L.N., doktor tekhn. nauk, prof.; KHARITOKOV, A.T., inzh.

Shock absorbers for automatic couplers with rubber-metal units.
Vest. TSNII MPS 18 no.5:36-39 Ag '59. (MIRA 13:1)

1.Bryanskiy institut transportnogo mashinostroyeniya.

(Car couplings)

Kharitonov, A. T., Cand Tech Sci — (diss) "Investigation of the Operation of the Rubber-Metal Elements of the Absorbing Apparatus of Automobile Clutches," Moscow, 1960, 11 pp, 120 copies (All-Union Sci Res Institute of Railroad Transport) (KL, 47/60, 104)